

ABSTRACT

A coated cutting tool member exhibiting not only a superior wear resistance during a high speed cutting operation in which a significant amount of heat is generated, but also exhibit a superior shipping resistance even when such a cutting operation is performed under severe conditions, such as with a large depth of cut or a large feed. In the coated cutting tool member, a hard coating layer of one of nitride compound and carbonitride compound containing Ti and Al is formed using a physical vapor deposition method at an average thickness of 1 to 10 μm , and the hard coating layer includes Zr at an atomic ratio of 0.002 to 0.1, and at least one of Y and Ce at an atomic ratio of 0.0005 to 0.05 in a coexistence state.